PATENT COOPERATION TREATY

INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)



W08419 Applicant's or agent's file reference see Form PCT/ISA/220 FOR FURTHER 00000PCT7824 as well as, where applicable, item 5 below. **ACTION** International application No. International filing date(day/month/year) (Earliest) Priority Date (day/month/year)

PCT/JP2005/007115	06.04.2005	09.04.2004
Applicant SEMICONDUCTOR ENER	GY LABORATORY CO.,LTI	D.
This international search report has been p to Article 18. A copy is being transmitted	repared by this International Searching Authorit to the International Bureau.	y and is transmitted to the applicant according
This international search report consists of It is also accompanied by a co	of a total of 3 sheets. The sheets of the s	rt.
language in which it was filed, un	e international search was carried out on the nless otherwise indicated under this item. a was carried out on the basis of a translation of 1.1(b)).	
b. With regard to any nucleotic	le and/or amino acid sequence disclosed in the	he international application, see Box No. I.
2. Certain claims were found	unsearchable (See Box II).	
3. Unity of invention is lacking	g (See Box III).	·
4. With regard to the title, ✓ the text is approved as substitute that the text has been established.	nitted by the applicant. d by this Authority to read as follows:	
	ted by the applicant. , according to Rule 38.2(b), by this Authority the date of mailing of this international search	
6. With regard to the drawings,		
as suggested by the app as selected by this Auth	ority, because the applicant failed to suggest a fority, because this figure better characterizes the	

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/007115

CLASSIFICATION OF SUBJECT MATTER

IntCl. HO1L27/12, G06K19/07, 19/077, H01L21/822, 27/04, 29/786

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H01L27/12, G06K19/07, 19/077, H01L21/822, 27/04, 29/786

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996 Published unexamined utility model applications of Japan 1971-2005 Registered utility model specifications of Japan 1996-2005

Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
·	Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No.033140/1977(Laid-open No. 126567/1978) (SANYO ELECTRIC CO., LTD.), 1978.10.07,	
Х	WHOLE DOCMENT, FIG. 5	1,7
Y	WHOLE DOCMENT, FIG. 5 FAMILY: NONE	2-6,8-13
X Y A	US 2002/0195648 A1 (HIRATA) 2002.12.26, WHOLE DOCUMENT, FIGS.1-14 WHOLE DOCUMENT, FIGS.1-14 WHOLE DOCUMENT, FIGS.1-14 & JP 2003-7833 A	1,2,7,8 3-6,9,10,12,13 11
Y	WO 2000/044049 A1 (SEIKO EPSON CORPORATION) 2000.07.27, WHOLE DOCUMENT, FIGS. 5, 19 & US 6671146 B1	1-13

₽ P	Further documents are listed in the continuation of Box C.	See patent family annex.		
* "A" "E" "L" "O"	considered to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or whice is cited to establish the publication date of another citation or othe special reason (as specified) document referring to an oral disclosure, use, exhibition or othe means document published prior to the international filing date but late than the priority date claimed	understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such		
Date of the actual completion of the international search 11.07.2005		Date of mailing of the international search report 26. 07.2005		
Name and mailing address of the ISA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Authorized officer WATAHIKI TAKASHI Telephone No. +81-3-3581-1101 Ext. 3460		

INTERNATIONALSEARCHREPORT

International application No.
PCT/JP2005/007115

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.			
Y	JP 2001-250097 A (HITACHI LTD.) 2001. WHOLE DOCUMENT, FIG. 2, & KR 200108827	10-13				
		·				
	· ·					
			,			
			0			
	·					
		·				
	•					